# PHASE II GROUND WATER INVESTIGATION

SUBJECT SITE: Stewart's Ice Cream Shop #400 60 West Street Rutland, VT

SMS Site # 97-2276

## A FACILITY OWNED BY:

Mr. Chad Fowler Stewart's Ice Cream Co. P.O. Box 435 Saratoga Springs, NY 12866

#### PREPARED BY:

Passaretti Geological & Environmental Consultants, Inc. P.O. Box 4515 Saratoga Springs, New York 12866 518-584-5122 Contact: Mary L. Passaretti

> September 1999 Updated February, 2000

## PASSARETTI GEOLOGICAL & ENVIRONMENTAL CONSULTANTS, INC P.O. 4515 SARATOGA SPRINGS, NEW YORK 12866 518-584-5122

February 29, 2000

Mr. Chad Fowler Stewart's Ice Cream Co. P.O. Box 435 Saratoga Springs, New York 12866

RE: Ground Water Investigation - Stewart's Ice Cream Shop #400 Rutland, Vermont SMS Site # 97-2276

Dear Mr. Fowler:

Enclosed please find the results of a ground water investigation performed at the above referenced site. The spill file was initiated following an underground storage tank upgrade. This study was performed as a requirement of the state of Vermont DEC.

The scope of work of the enclosed investigation involved assessment of the severity of contamination via a ground water investigation. The ground water investigation was completed by the installation of four, two-inch diameter, ground water monitoring wells. Results and recommendations are enclosed within. If there are any questions regarding the enclosed, kindly call our office.

Sincerely,

Mr. Randy G. Miczek

Land D. Mayl

Geologist

Reviewed By

Mary L. Passaretti, MS Senior Hydrogeologist

cc. Ms. Linda Elliot

Enc.

## **TABLE OF CONTENTS**

INTRODUCTION Site Location and Description	PAGE 1 PAGE 1
GROUND WATER INVESTIGATION Ground Water Monitoring Well Installation MW-1 MW-2 MW-3 MW-4	PAGE 2 PAGE 2 PAGE 2 PAGE 2 PAGE 3
Site Survey, Ground Water Flow Direction, and Ground Water Gradient Determination Site Geology and Hydrogeology Ground Water Sampling	PAGE 3 PAGE 3 PAGE 3
GROUND WATER ANALYTICAL RESULTS AND DISCUSSION	PAGE 4
CONCLUSIONS AND RECOMMENDATIONS	PAGE 4

#### **TABLES**

TABLE 1: SUMMARY OF GROUND WATER ELEVATIONS

TABLE 2: SUMMARY OF GROUND WATER ANALYTICAL RESULTS

#### **FIGURES**

FIGURE 1: SITE LOCATION MAP

FIGURE 2: SITE MAP

FIGURE 3: GROUND WATER CONTOUR MAP FIGURE 4: CONTAMINANT DISTRIBUTION MAP

#### **APPENDICES**

APPENDIX A: MONITORING WELL BORING AND COMPLETION DESIGN REPORTS

APPENDIX B: LABORATORY DATA

#### INTRODUCTION

In July 1997, Stewart's Ice Cream Company performed a facility upgrade. This upgrade was to include the removal of four underground storage tanks (USTs). However, while excavating in another area of the lot for the installation of the 12,000-gallon replacement tank, five additional tanks were encountered. The five tanks were located immediately north of the building. The four known USTs were located immediately west of the building. Due to the proximity of the tanks to the building structure, several tanks had to be closed in place. Both contaminated soil and ground water were encountered which could not be properly addressed due to the physical constraints of the site. Therefore the Vermont DEC requested that a ground water study be performed to determine the magnitude and lateral extent of contamination.

To complete this assessment, four, two-inch diameter monitoring wells were advanced on June 14,1999. The scope of work of this investigation provides the following information:

- 1) soil-boring descriptions based on core tube observations;
- 2) monitoring well completion design reports;
- 3) ground water gradient and flow direction;
- 4) ground water analyses (abbreviated EPA Method 502.2 and MTBE);
- 5) monitoring well and ground water survey data; and,
- 6) recommendations.

## Site Location and Description

The site is located on the southeast corner of the intersection of West and Wales Streets, in Rutland Vermont. The surrounding land use is predominantly commercial. The northern boundary of the site is West Street. Across West Street is a parking lot used by NYNEX and the Longfellow School Building. Immediately bordering the site to the south is a two-story building occupied by the Black Cactus Restaurant and Lender Associates. The Homestead Baptist Church borders the site to the east. Wales Street comprises the western boundary, which is then followed by a large parking lot for the Arrow Bank of Vermont.

The general topography of the site and surrounding sites slopes to the west and towards the business district of downtown Rutland. The East Creek is located approximately 2,800 feet to the west. The confluence of the East and Otters Creek is located approximately 4,600 feet southwest of the site. Tenney Brook, a tributary to the East Creek, is located approximately 3,500 feet north-northwest of the subject site.

The site and surrounding sites utilize municipal water and sewer services. The drinking water for the area originates from a reservoir located in Rutlandtown. The subject property is heated by fuel oil, which is stored in a 275-gallon aboveground tank.

Therefore the only active UST on the property is the 12,000-gallon replacement tank that was installed in 1997.

#### **GROUND WATER INVESTIGATION**

## **Ground Water Monitoring Well Installation**

Appendix A presents the monitoring well boring and completion design reports. The following discussion details the findings.

## MW-1

Monitoring well MW-1 was installed north of the Stewart's Shop and east of the pump island. It was advanced in an area believed to be upgradient of the past and present petroleum features as a control point. The well was drilled to a total depth of 12 feet and completed with ten feet of screen. The sediment consists of very fine- to fine-grained sand with little gravel. With depth, there is an increasing amount of silt. At a depth of 12 feet, samples off the auger head consist of fine-grained sand and silt with a trace of clay. Ground water was encountered at approximately five below grade while drilling.

Soil samples were collected throughout the stratigraphic sequence and placed in airtight bags to allow the soil gases to equilibrate. Headspace PID readings were then recorded on each sample. The samples collected recorded 0 ppm with no odor at all depths.

#### <u>MW-2</u>

Monitoring well MW-2 was advanced west of the Stewart's Shop. It was drilled to a total depth of 13 feet and completed with ten feet of screen. The sediment through four feet below grade is fill that consists of sand, gravel and ash. From four feet to the total depth of the well, the sediment consists of very fine-grained sand and silt with a trace of clay. Ground water was encountered at approximately five feet below grade.

Soil samples collected at 4.5 feet below grade recorded 6 ppm, at nine feet 115 ppm, and at 11 feet 174 ppm. The petroleum odor noted was that of weathered gasoline.

## MW-3

Monitoring well MW-3 was installed west of the Stewart's Shop and north of MW-2. It was drilled to a total depth of 12 feet and 11 inches. At that point, refusal was met. The well is completed with ten feet of screen. The well completion and the geology remain the same as MW-2. Ground water was encountered at approximately five feet below grade.

Soil samples collected at five feet below grade recorded 1.6 ppm and at seven feet 46 ppm. At 11 feet below grade, the soil sample recorded a PID value of 24 ppm. Ground water was encountered at approximately four to five feet below grade.

## MW-4

Monitoring well MW-4 is located southwest of the underground storage tanks. The well was drilled to a total depth of 13 feet with 10 feet of screen. Geology for the first ten feet below grade is peastone. At 13 feet below grade, the sediment is fine-grained sand and silt with some clay. A slight odor was detected in the peastone and underlying sediment. The field readings recorded two ppm in the 13-foot sample.

# Site Survey, Ground Water Flow Direction, and Ground Water Gradient Determination

The subject property petroleum-related features and well elevations were surveyed on June 13, 1999. Using these data, the top of the PVC casing for each well has been determined. The casing elevations were determined relative to a benchmark. A Solinst water level indicator, accompanied with a tape ruler graduated to 0.01 feet, was used to measure the depth to water from the highest point of the PVC on several dates. A table summarizing the water level data (Top of Casing, Top of Screen, and Corrected Ground Water Elevation) is given as Table 1.

Utilizing the survey data and the ground water measurements taken on January 6, 2000, the ground water flow direction and gradient were calculated. The ground water flow was to the west at a gradient of 5.5% (Figure 3). This is consistent with the general topography of the area.

## Site Geology and Hydrogeology

Results of the soil core tube analyses for the wells are given in Appendix A. The native geology across the study area consists of very fine to fine-grained sand with some gravel underlain by finer grained sand, silt and clay. The shallow ground water at the site intersects the finer-grained unit.

## Ground Water Sampling

Ground water samples were obtained from MW-1 through --4 on June 15, 1999, and January 6, 2000. On October 5, 1999 ground water samples were obtain from only MW-2, MW-3, and MW-4. Monitoring well MW-1 was beneath a car so a sample was unattainable. The ground water monitoring wells were developed by removing three well volumes of ground water or by totally evacuating the well. Ground water in the wells was then allowed to fully recharge prior to being placed in laboratory supplied sampling vials. The samples were acidified, placed on ice, and submitted to Northeast Analytical Laboratories in Schenectady, NY under a chain-of-custody. The hydrochloric acid, added to each sample, inhibits biodegradation, while the ice prevents volatilization of the organic compounds. The samples were submitted for analyses by the abbreviated EPA Method 502.2 and for methyl tertiary butyl ether (MTBE).

#### GROUND WATER ANALYTICAL RESULTS AND DISCUSSION

The results of the ground water analyses indicate that MW-2 and MW-3 are the most contaminated of the four wells. Total volatile organic compounds (VOCs) in MW-2 increased from 3,982 parts per billion (ppb) on June 15, 1999 to 9,956 ppb on October 5, 1999 and then slightly decreased to 9,272 ppb. Methyl tertiary butyl ether (MTBE) has decreased in this same time interval from 1,540 ppb on June 15, 1999 to 298 ppb on January 6, 2000. The total VOCs in MW-3 decreased from 9,188 ppb on June 15, 1999 to 4,705 ppb on October 5, 1999 and then increased to 7,513 ppb on January 6, 2000. MTBE has also followed the same trend with a decrease from 6,750 ppb on June 15, 1999 to 3,700 on October 5, 1999 and then an increase to 4,440 ppb on January 6, 2000. The total VOCs in MW-4 have decreased from 876 ppb on June 15, 1999 to <1 ppb on January 6, 2000 but MTBE has increased during this same interval from 408 ppb to 887 ppb. MW-1 has had low amounts of total VOCs and MTBE (<1 and 3 respectively on January 6, 2000) both times it was sampled.

The signature of the dissolved gasoline is contradictory. The elusion of trimethylbenzene, n-butylbenzene and naphthalene would suggest a weathered gas, however the relatively high concentration of MTBE contradicts this.

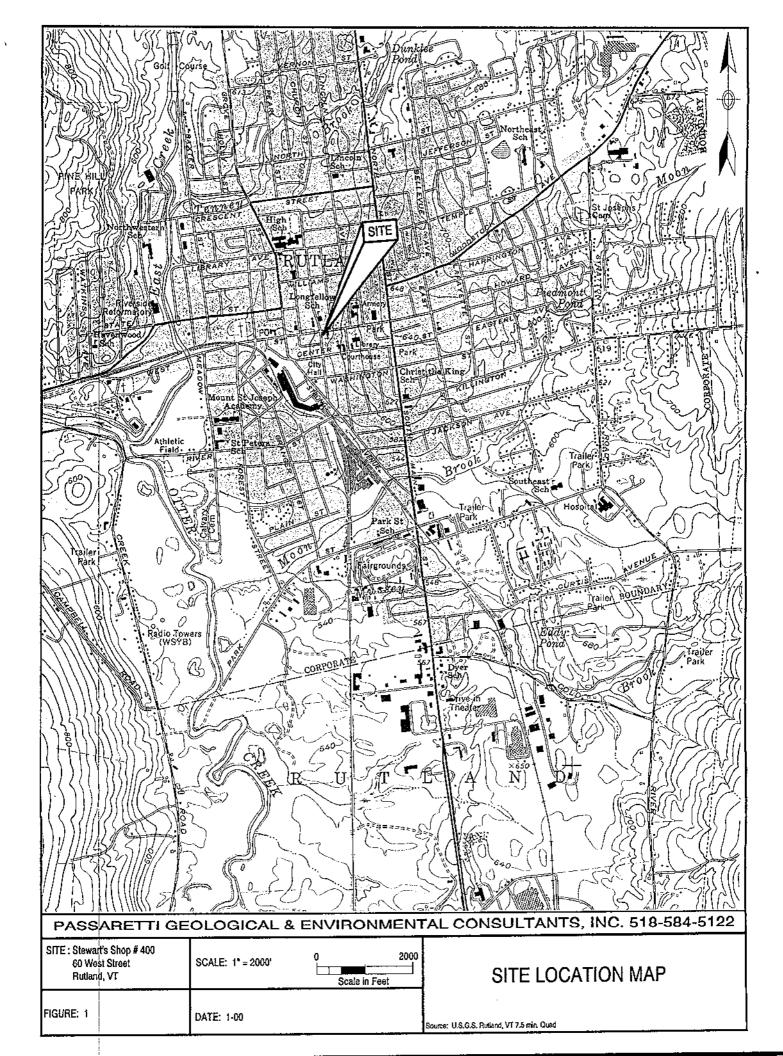
Table 2 presents a summary of the analytical results, Figure 4 presents a graphic display and Appendix B contains the hard copy of the laboratory data.

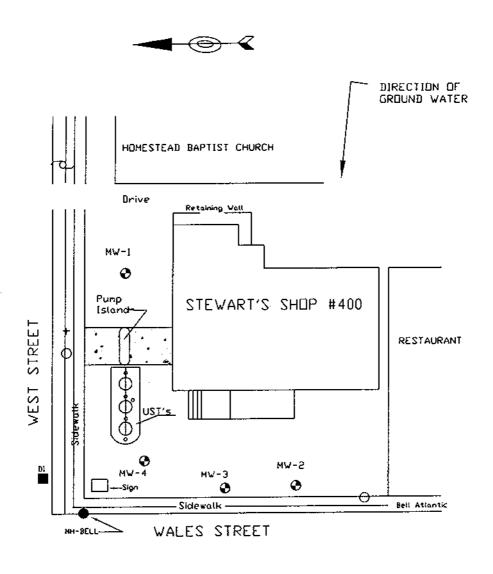
## **CONCLUSIONS AND RECOMMENDATIONS**

Sensitive receptors in the area would include basements in buildings across Wales Street and utilities buried at a depth greater than four feet. The nearest downgradient building is a vacant building across Wales Street (formerly the Green Mountain Bank). It is unknown whether there is a basement. There are storm drains and sewer lines along Wales Street that are deep enough to be impacted.

Several rounds of ground water measurements have documented the flow as consistently westward. Therefore, the plume of contamination has not been defined in a horizontal or westerly direction. Passaretti Geological recommends that two wells be advanced west of the site between the documented contamination and the nearest downgradient building. If the contaminant levels in these wells are low, and if the contamination in the on-site monitoring wells remains the same or decreases, perhaps the site can be addressed by periodic monitoring only.

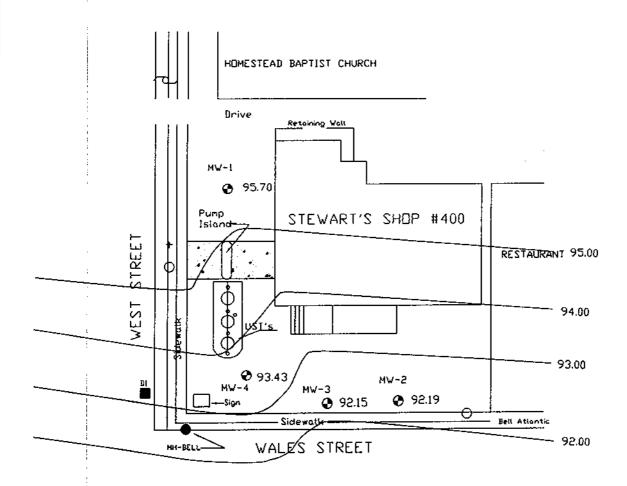
FIGURES





PASSARETTI GEOLOGICAL &	ENVIRONMENTAL CONSULTANTS, IN	NC. 518-584-5122
STEWART'S SHOP #400 60 West Street Rutland, Vermont	SCALE: 0 30 SCALE IN FEET	The visity fole  + visite Valve  - visite Map
Figure Number 2	DATE: 1/6/00	Menhale     Seatr     Monitoring Mail

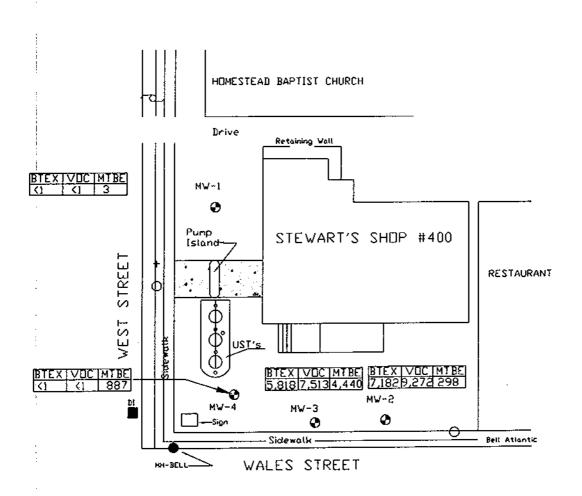




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518-584-5122

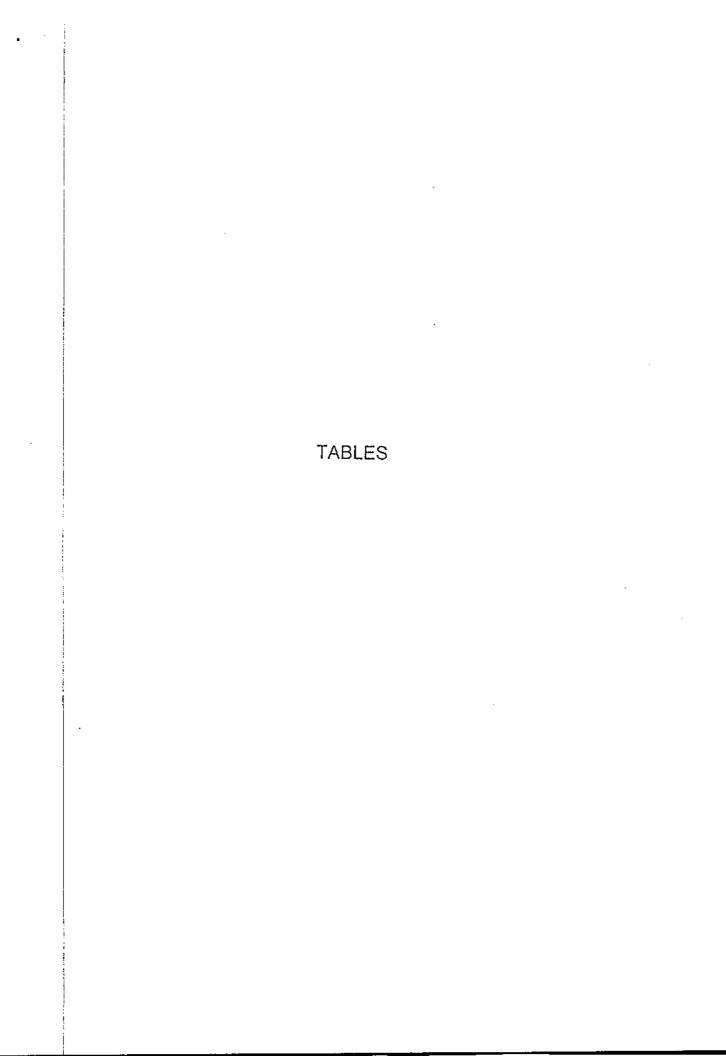
STEWART'S SHOP #400 60 West Street Rutland, Vermont	\$CALE:	0 30 SCALE IN FEET	CQ, Utility Pole thater Value Brog Delet	GROUND WATER	٠
Figure Number 3	DATE: 1/6/	00	Number     Street     Huntaring Vell	CONTOUR MAP	



PASSARETTI GEOLOGICAL & ENVIRONMENTAL CONSULTANTS, INC.

518-584-5122

STEWART'S SHOP #400 60 West Street Rutland, Vermont	SCALE:	SCALE IN FEET	COL Usaky Pose  • Veter Valve  • Deep letes	Contominant Distribution map In parts per billion
Figure Number 4	DATE: 1/6/	708	• Harricle • Sever • Hostoring Vell	



## TABLE 1

## SUMMARY OF GROUND WATER MEASUREMENTS STEWART'S SHOP #400 FACILITY ID #327 60 WEST STREET RUTLAND, VT

WELL DESIGNATION:	MW-1	MW-2	MW-3	MW-4
TOP OF CASING	100.73	97.94	97.86	98.01
TOP OF SCREEN	98.73	94.94	94.86	95.01
BOTTOM OF WELL	89.23	84.94	85.36	85.56
MEASUREMENT	CORR	<b>ECTED GROUND</b>	WATER ELEVAT	TIONS
DATE				
6/15/99	95.07	92.95	93.14	93.51
7/12/99	95.19	92.86	92.95	93.39
10/5/99	NG	94.14	93.87	93.55
1/6/00	95.70	92.19	92.15	93.43
Ground water elevations rep	resented in feet			

NG = Not Gauged

## TABLE 2

## LABORATORY GROUND WATER ANALYTICAL RESULTS STEWART'S ICE CREAM COMPANY SHOP 400 WEST ST. RUTLAND, VT

WELL	ID/DATE			CONTAMINAL	MINANT PARAMETER					
		Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Total VOC	MTBE		
MW-1										
İ	6/15/99	<.07	<1	<1	<1	<1	10	<1		
ŀ	1/6/00	<0.7	<1	<1	<1	<1	<1	3		
MW-2										
İ	6/15/99	<140	804	256	2511	3571	3982	1540		
	10/5/99	82	1780	581	5400	7843	9956	314		
	1/6/00	67	1260	545	5310	7182	9272	298		
MW-3										
	6/15/99	543	600	1030	5030	7203	9188	6750		
	10/5/99	295	108	646	2574	3623	4705	3700		
	1/6/00	309	185	769	4555	5818	7513	4440		
MW-4										
	6/15/99	75	93	76	327	571	876	408		
	10/5/99	8	<1	2	<1	10	12	481		
į	1/6/00	<1	<1	<1	<1	<1	<1	887		

MTBE: Methyl Tertiary Butyl Ether
NA: Data Not Available
Total VOC: Total Volatile Organic Compounds by EPA Method 502.2, excludes MTBE

# APPENDIX A:

MONITORING WELL BORING AND COMPLETION DESIGN REPORTS

	Location: \	Box 435, Sar West St. Rut	Site Plan
Phone No.: 518-581-1201  Date Drilled: 6-13-99		Mary Passa	
Drilling Contractor: Aztech	Driller: T. Za		
Drilling Method: Auger			See Site Map
Total Depth of Hole: 12 feet	Diamei	ter: 2-inch	·
Screen: Dia.: 2-inch Le	ngth: 10 feet	Slot Size:	0.010
Casing: Dia.: 2-inch Ler	ngth: 1.5 feet	Туре:	PVC
Sand Pack: yes Ben	ntonite Seal: yes	_Protective	Casing: yes
Depth Well (ft.) Construction	Notes (blows, etc.)	PID (ppm)	Description/ Soil Classification
- 1 - 2 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	PVC Riser  Sand pack	0	2': Brown, very fine to fine-grained SAND, little gravel, moist, no odor (probably fill 4': Brown, very fine to fine-grained SAND, little gravel, trace of silt, becoming wet, no odor.
- 5	PVC Screen		9': Brown, very fine-grained SAND and SILT, trace of graves, wet, no odor.
- 9 -		0	9 . DIOWII, Vely line-glassed OAND and O.E., daso of graves, mes, no execu
_ 11 _		0 1	2': Brown, very fine-grained SAND and SILT, little clay and few 2" diameter cobbles

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PAS	SARETTI	GEOLO	GICA	P.O. Box 4515 Saratoga, NY 12866  (518) 584-5122  Page 2 of 4  DRILLING LOG
	ewart's Ice Cream Co.	Addresss:_P.0	. Box 435, Sa	ratoga Springs, NY Well/ Boring No. MW-2
Ī	518-581-1201		West St. Rut	
Date Drilled	: 6-13-99		Mary Passa	retti
Orilling Con	tractor: Aztech	Driller: T.	Zabel	
-	hod: Auger of Hole: 13 feet		neter: 2-inch	See Site Map
		n: 10 feet	Slot Size:	
į	a.: 2-inch Length			PVC
Sand Pack:		ite Seal: yes	Protective	Casing: yes
Depth (ft.)	Well Construction	Notes (blows, etc.)	PID (ppm)	Description/ Soil Classification
- 0 - 1 - 1 - 2 - 3 - 3 - 4 5 6 7 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -		Curb Box Concrete Bentonite Seal PVC Riser  Sand pack	6	2': FILL - composed of SAND, GRAVEL and ASH, dry with musty odor.  4.5': Brown to black, very fine to fine-grained SAND and SILT with trace clay, moist becoming wet with old petroleum odor.
9 -  10 -			115	9': Dark brown, very fine-grained SAND and SILT, trace of gravel and clay, wet with stronger gasoline odor.
11 _ _ 12 -			174	11': Greenish brown, very fine-grained SAND and SILT with Clay, wet with strong gasoline odor.
			34	13': Greenish brown, very fine-grained SAND and SILT with Clay, wet with less gasoline odor.
-	4			Total Depth: 13'

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		P.O. Box 4515 Page 3 of 4
PASSARETTI GEO	OGICA	Saratoga, NY 12866 DRILLING LOG (518) 584-5122
TITOTILE II OEO		aratoga Springs, NY Well/ Boring No. MW-3
Phone No.: 518-581-1201 Locati		Site Plan
	by: Mary Pass	
	T. Zabel	
Drilling Method: Auger		See Site Map
Total Depth of Hole: 12.9 feet	Diameter: 2-inc	·
Screen: Dia.: 2-inch Length: 10 feet	-	e:_0.010
Casing: Dia.: 2-inch Length: 2.9 feet	Туре:	PVC
Sand Pack: yes Bentonite Seal:	resProtective	e Casing: yes
Depth Well Notes	PID	Description Carl Classification
(ft.) Construction (blows, etc.	) (ppm)	Description/ Soil Classification
Curb Bo Concre Bentor Seal PVC Ris	te ite	2': FILL - SAND, GRAVEL and BRICKS.
4	1.6	5': Brown very fine to fine-grained SAND and SILT with traces of gravel and clay, moist to wet with some gasoline odor.
PVC Scri	46 een	7'; Black to brown, very fine-grained SAND and SILT, trace of gravel and clay, wet with stronger gasoline odor.
	24	11' : Greenish brown, very fine-grained SAND and SILT with Clay, wet with strong gasoline odor.

Total Depth: 12.9\*

Depth (ft.)	Well Construction	Notes (blows, etc.)	PID (ppm)	Description/ Soil Classification
- 0 - - 1 <b>-</b>		Curb Box Concrete Bentonite Seal	;	
_ 2 _ 2 3		PVC Riser		
 - 4 		- Sand pack		
- 5 6		▼	0	0'-10' : Peastone
- 7 - 7		PVC Screen		
- 8 — - —				
10			0	
11 <u> </u>				
- – . 13 <sub>–</sub>			2	13': Greenish brown, very fine-grained SAND and SILT with Clay.
- <del></del>				Total Depth: 13'

APPENDIX B
LABORATORY ANALYSIS

TIME: 13:00

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

## CERTIFICATE OF ANALYSIS 1/12/00

## STEWART'S **PO BOX 435** SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-1

NEA ID:

AD00129

MATRIX:

DATE SAMPLED: 1/6/00

TIME: N/A

WATER

PROJECT:

N/A

SAMPLED BY:

DATE RECEIVED: 1/7/00

K. HEDGE

LOCATION:

WEST ST., SHOP #198

CUSTOMER PO: N/A		LAB ELAI	?#: 110	78 DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
Methodology: EPA Method 502.2					
1,2,3-Trichlorobenzene	ND	1.00	μg/L	1/11/00	
1,2,4-Trichlorobenzene	ND	1.00	μg/L	1/11/00	
1,2,4-Trimethylbenzene	ND	1.00	μg/L	1/11/00	
1,2-Dichlorobenzene	ND	1.00	μg/L	1/11/00	
1,3,5-Trimethylbenzene	ND	1.00	μg/Ĺ	1/11/00	
1,3-Dichlorobenzene	ND	1.00	μg/L	1/11/00	
1,4-Dichlorobenzene	ND	1.00	μg/L	1/11/00	
2-Chlorotoluene	ND	1.00	μg/L	1/11/00	
4-Chlorotoluene	ND	1.00	μg/L	1/11/00	
4-Isopropyltoluene	ND	1.00	μg/L	1/11/00	
Benzene	ND	0.700	μg/L	1/11/00	
Bromobenzene	ND	1.00	μg/L	1/11/00	
Chlorobenzene	ND	1.00	μg/L	1/11/00	
Ethylbenzene	ND	1.00	μg/L	1/11/00	
Hexachlorobutadiene	ND	1.00	μg/L	1/11/00	
Isopropylbenzene	ND	1.00	μg/L	1/11/00	
M&P Xylene	ИD	1.00	μg/L	1/11/00	
мтве	2.50	1.00	μg/L	1/11/00	
N-Butylbenzene	ND	1.00	μg/L	1/11/00	
N-Propylbenzene	ND	1.00	μg/L	1/11/00	
Naphthalene	ND	1.00	μg/L	1/11/00	
O Xylene	ND	1.00	μg/L	1/11/00	
Sec-Butylbenzene	ND	1.00	μg/L	1/11/00	
Styrene	ИD	1.00	μg/L	1/11/00	
tert-Butylbenzene	ND	1.00	μg/L	1/11/00	
Tetrachloroethene	ND	1.00	μg/L	1/11/00	
Toluene	ND	1.00	μg/L	1/11/00	
Trichloroethene	ND	1.00	μg/L	1/11/00	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

James Do

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 1/12/00

STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866

CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-2

NEA ID:

AD00130

**MATRIX:** 

WATER

DATE SAMPLED: 1/6/00

N/A

DATE RECEIVED: 1/7/00

PROJECT: TIME: 13:00

N/A

TIME:

SAMPLED BY:

K. HEDGE

LOCATION:

WEST ST., SHOP #198

**CUSTOMER PO:** 

N/A

LAB ELAP #:

11078 DATE

PQL UNITS COMPLETED **FLAGS** PARAMETER PERFORMED RESULTS Methodology: EPA Method 502.2 1/11/00 50.0 μg/L 1,2,3-Trichlorobenzene ND 1/11/00 ND 50.0 μg/L 1,2,4-Trichlorobenzene 1/11/00 50.0 μg/L 1350 1,2,4-Trimethylbenzene μg/L 1/11/00 50.0 ND 1,2-Dichlorobenzene 1/11/00 50.0 μg/L 1,3,5-Trimethylbenzene 316 1/11/00 50.0 μg/L ND 1,3-Dichlorobenzene 1/11/00 ND 50.0 μg/L 1,4-Dichlorobenzene 50.0  $\mu g/L$ 1/11/00 ND 2-Chlorotoluen¢ 1/11/00 50.0 μg/L ND 4-Chlorotoluene 1/11/00 ND 50.0 μg/L 4-Isopropyltoluene 1/11/00 μg/L 67.3 35.0 Benzene 1/11/00 50.0 μg/L ND Bromobenzene 50.0 μg/L 1/11/00 ND Chlorobenzene 1/11/00 μg/L 50.0 545 Ethylbenzene 1/11/00 50.0 μg/L ND Hexachlorobutadiene 1/11/00 50.0 μg/L ND Isopropylbenzene 1/11/00 50.0 μg/L 3520 M&P Xylene 1/11/00 μg/L 298 50.0 MTBE 1/11/00 50.0 μg/L 73.1 N-Butylbenzene μg/L 1/11/00 50.0 ND N-Propylbenzene 1/11/00 50.0  $\mu$ g/L 351 Naphthalene 1/11/00 50.0 µg/L 1790 O Xylene 1/11/00 50.0 μg/L ND Sec-Butylbenzene μg/L 1/11/00 50.0 ND Styrene 1/11/00 50.0 μg/L ND tert-Butylbenzene 1/11/00 μg/L 50.0 ND Tetrachloroethene 1/11/00 μg/L 50.0 1260 Toluene 1/11/00 μg/L 50.0 ND Trichloroethene

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

James Daly

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 1/12/00

## STEWART'S **PO BOX 435** SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-3

NEA ID:

AD00131

MATRIX:

WATER

DATE SAMPLED: 1/6/00

**TIME: 13:00** 

PROJECT:

N/A

N/A

SAMPLED BY:

DATE RECEIVED: 1/7/00 K. HEDGE

LOCATION:

WEST ST., SHOP #198

TIME:

CUSTOMER PO:

LABELAP#:

11078

CUSTOMER PO: N/A	LABELAP#: 110/8 DATE				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
Methodology: EPA Method 502.2					<u></u>
1,2,3-Trichlorobenzene	ND	100	μg/L	1/11/00	
1,2,4-Trichlorobenzene	ND	100	μg/L	1/11/00	
1,2,4-Trimethylbenzene	1190	100	μ <b>g/</b> L	1/11/00	
1,2-Dichlorobenzene	ND	100	μg/L	1/11/00	
1,3,5-Trimethylbenzene	197	100	μg/L	1/11/00	
1,3-Dichlorobenzene	ND	100	μg/L	1/11/00	
1,4-Dichlorobenzene	ND	100	μg/L	1/11/00	
2-Chlorotoluene	ND	100	μg/L	1/11/00	
4-Ch}orotoluene	ND	100	μg/L	1/11/00	
4-Isopropyltoluene	ND	100	μg/L	1/11/00	
Benzene	309	70.0	μg/L	1/11/00	
Bromobenzene	ND	100	μg/L	1/11/00	
Chlorobenzene	ND	100	μg/L	1/11/00	
Ethylbenzene	769	100	μg/L	1/11/00	
Hexachlorobutadiene	ND	100	μg/L	1/11/00	
sopropylbenzene	ND	100	μg/L	1/11/00	
M&P Xylene	4080	100	μg/L	1/11/00	
MTBE	4440	100	μg/L	1/11/00	
N-Butylbenzene	ND	100	μg/L	1/11/00	
N-Propylbenzene	108	100	μg/L	1/11/00	
Vaphthalene	200	100	μg/L	1/11/00	
O Xylene	475	100	μg/L	1/11/00	
Sec-Butylbenzene	ND	100	μg/L	1/11/00	
Styrene	ND	100	μg/L	1/11/00	
ert-Butylbenzene	ND	100	μg/L	1/11/00	
Cetrachloroethene	ND	100	μg/L	1/11/00	
Foluene	185	100	μg/L	1/11/00	
	ND	100	μg/L	1/11/00	
Trichloroethene	1112	• • • •	L-& —		

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

James Da

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 1/12/00

STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-4

NEA ID:

AD00132

MATRIX:

WATER

DATE SAMPLED: 1/6/00

TIME: N/A

WIAI KIA.

MILLIAN

TIME: 13:00

PROJECT:

LOCATION:

N/A

WEST ST., SHOP #198

SAMPLED BY:

DATE RECEIVED: 1/7/00

K. HEDGE

Methodology   EPA Method 502.2	SAMPLED BI. K. HEDGE		200,1201.								
Methodology   EPA Method 502.2	CUSTOMER PO: N/A		LAB ELA	P#: 110	078 DATE						
1,2,3-Trichlorobenzene   ND   20.0   µg/L   1/11/00     1,2,4-Trichlorobenzene   ND   20.0   µg/L   1/11/00     1,2,4-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,2-Dichlorobenzene   ND   20.0   µg/L   1/11/00     1,3,5-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,3,5-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,3-Dichlorobenzene   ND   20.0   µg/L   1/11/00     1,3-Dichlorobenzene   ND   20.0   µg/L   1/11/00     1,4-Dichlorobenzene   ND   20.0   µg/L   1/11/00     1,4-Dichloroben	PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS					
1,2,4-Trichlorobenzene   ND   20.0   µg/L   1/11/00     1,2,4-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,2,5-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,3,5-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,3-Dichlorobenzene   ND   20.0   µg/L   1/11/00     1,4-Dichlorobenzene   ND   20.0   µg/L   1/11/00     1,4-Dichlorobenzen	Methodology: EPA Method 502.2										
1,2,4-Trimethylbenzene	1,2,3-Trichlorobenzene										
2-Dichlorobenzene   ND   20.0   µg/L   1/11/00     3,3,5-Trimethylpenzene   ND   20.0   µg/L   1/11/00     3,3,5-Trimethylpenzene   ND   20.0   µg/L   1/11/00     4,4-Dichlorobenzene   ND   20.0   µg/L   1/11/00     4,5-Chlorotoluene   ND   20.0   µg/L   1/11/00     4,5-Chlorotoluene   ND   20.0   µg/L   1/11/00     4,5-Chlorotoluene   ND   20.0   µg/L   1/11/00     4,5-Chlorobenzene   ND   20.0   µg/L   1/11/00     4,5-Chlorobenzene   ND   20.0   µg/L   1/11/00     4,5-Chlorobenzene   ND   20.0   µg/L   1/11/00     5,5-Chlorobenzene   ND   20.0   µg/L   1/11/00     5,5-Chlorobenzene   ND   20.0   µg/L   1/11/00     6,5-Chlorobenzene   ND   20.0   µg/L	1,2,4-Trichlorobenzene										
1,3,5-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,3,5-Trimethylbenzene   ND   20.0   µg/L   1/11/00     1,4-Dichlorobenzene   ND	1,2,4-Trimethylbenzene										
1,3,3-Dichlorobenzene   ND   20.0   µg/L   1/11/00     1,4-Dichlorobenzene   ND   20.0   µg/L   1/11/00     2-Chlorotoluene   ND   20.0   µg/L   1/11/00     3-Chlorotoluene   ND   20.0   µg/L   1/11/00     4-Chlorotoluene   ND   20.0   µg/L   1/11/00     4-Chlorotoluene   ND   20.0   µg/L   1/11/00     4-Chlorotoluene   ND   20.0   µg/L   1/11/00     5-Chlorotoluene   ND   20.0   µg/L   1/11/00     6-Chlorobenzene   ND   20	1,2-Dichlorobenzene		20.0								
1,4-Dichloroberzene   ND   20.0   µg/L   1/11/00	1,3,5-Trimethylbenzene	МD									
A-Chlorotoluene	1,3-Dichlorobenzene	ND									
ND   20.0	1,4-Dichlorobenzene	ND	20.0								
I-Isopropyltoluene	2-Chlorotoluene	ND	20.0								
ND	4-Chlorotoluene	ND	20.0								
ND	1-Isopropyltoluene	ND	20.0	μg/L	1/11/00						
ND   20.0   µg/L   1/11/00		ND	14.0	μg/L	1/11/00						
ND   20.0	Bromobenzene	ND	20.0	μg/L							
ND   20.0   \( \mu g/L \)   1/11/00   Hexachlorobutadiene   1/11/00   Hexachlorobutadiene   ND   20.0   \( \mu g/L \)   1/11		ND	20.0	μg/L							
Hexachlorobutatione   ND   20.0   µg/L   1/11/00     sopropylbenzene   ND   20.0   µg/L   1/11/00     M&P Xylene   ND   20.0   µg/L   1/11/00     MTBE   887   20.0   µg/L   1/11/00     N-Butylbenzene   ND   20.0   µg/L   1/11/00     N-Propylbenzene   ND   20.0   µg/L   1/11/00     ND   20.0   µg/L   1/11/		ND	20.0	μg/L	1/11/00						
ND   20.0   µg/L   1/11/00	-	ND	20.0	μg/L	1/11/00						
M&P Xylene		ND	20.0	μg/L	1/11/00						
MTBE   887   20.0   µg/L   1/11/00     N-Butylbenzene   ND   20.0   µg/L   1/11/00     N-Propylbenzene   ND   20.0   µg/L   1/11/00     ND   20.0   µg/L   1/11/00	• • •	ND	20.0	μg/L	1/11/00						
N-Butylbenzene	·	887	20.0	μg/L	1/11/00						
ND   20.0   µg/L   1/11/00   ND   20.0   µg/L   20.0   µg/		ND	20.0	μg/L	1/11/00						
ND         20.0         µg/L         1/11/00           O Xylene         ND         20.0         µg/L         1/11/00           Sec-Butylbenzene         ND         20.0         µg/L         1/11/00           Styrene         ND         20.0         µg/L         1/11/00           ert-Butylbenzene         ND         20.0         µg/L         1/11/00           Cetrachloroethene         ND         20.0         µg/L         1/11/00           Foluene         ND         20.0         µg/L         1/11/00	·	ND	20.0	μg/L	1/11/00						
D Xylene       ND       20.0       μg/L       1/11/00         Sec-Butylbenzene       ND       20.0       μg/L       1/11/00         Styrene       ND       20.0       μg/L       1/11/00         ert-Butylbenzene       ND       20.0       μg/L       1/11/00         Fetrachloroethene       ND       20.0       μg/L       1/11/00         Foluene       ND       20.0       μg/L       1/11/00	i	ND	20.0		1/11/00						
ND   20.0   \( \mu g/L \)   1/11/00	•	ND	20.0	μg/L	1/11/00						
ND   20.0   μg/L   1/11/00	-				1/11/00						
ND   20.0 μg/L   1/11/00	*				1/11/00						
Cetrachloroethene         ND         20.0         μg/L         1/11/00           Foluene         ND         20.0         μg/L         1/11/00	<u>-</u>			·	1/11/00						
ND 20.0 μg/L 1/11/00	,				1/11/00						
7 1/11/00					1/11/00						
	Frichloroethene	ND	20.0	μg/L	1/11/00						

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

James Da

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

## NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308 Telephone (518)346-4592 Fax (518) 381-6055

## CHAIN OF CUSTODY RECORD

Q = Q

PROJECT//PROJECT NAME: CLIENT: Wost CON STANDARD LOCATION (CITY/STATE) ADDRESS: CLIENT CONTACT: Rutland PHONE#: DUE DATE: REMARKS MATRIX GRAB/CQMP NEA USE ONLY 3 DATE TIME SAMPLE ID H20 Grab MW.3 mw -PRES. SAMPLED BY (PRINT): NAME OF COURIER (IF USED) SAMPLE BOTTLE: TYPE SIZE PARAMETER AND METROD 502.2 ABR. PASS. RELINQUISHED BY: DATE: RECEIVED BY: RELINOUISHED BY: DATE: TIME: DATE: TIME: NOTE: THE NUMBERED COLUMNS ABOVE CROSS REFERENCE THE NUMBERED COLUMNS FROM TOP RIGHT OF SHEET COC TAPE RELINQUISHED BY: RECEIVED BY: PROPERLY PRESERVED: AMBIENT OR CHILLED COC DISCREPANCIES DATE: TIME: DATE: TIME: RCVD WA HOLDING TIMES Y N YES NO RECEIVED BROKEN OR LEAKING

NORTHEAST ANALYTICAL a lun nul

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 10/14/99

STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-2

NEA ID:

AC06977

MATRIX:

WATER

DATE SAMPLED: 10/5/99

N/A TIME:

DATE RECEIVED: 10/6/99

**TIME:** 8:45

PROJECT:

N/A

WEST ST., SHOP #198

SAMPLED BY:

K. HEDGE

LOCATION:

CUSTOMER PO: N/A		LAB ELAP #	110	78 DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
Methodology: EPA Method 502.2					
1,2,3-Trichlorobenzene	ND	50.0	μg/L	10/13/99	
1,2,4-Trichlorobenzene	ND	50.0	μg/L	10/13/99	
1,2,4-Trimethylbenzene	1320	50.0	μg/L	10/13/99	
1,2-Dichlorobenzene	ND	50.0	μg/L	10/13/99	
1,3,5-Trimethylbenzene	334	50.0	μg/L	10/13/99	
1,3-Dichlorobenzene	ND	50.0	μg/L	10/13/99	
1,4-Dichlorobenzene	ND	50.0	µg/L	10/13/99	
2-Chlorotoluene	ND	50.0	μg/L	10/13/99	
4-Chlorotoluene	ND	50.0	μg/L	10/13/99	
4-isopropyltoluene	ND	50.0	μg/L	10/13/99	
Benzenc	82.4	35.0	μg/L	10/13/99	
Bromobenzene	ND	50.0	μg/L	10/13/99	
Chlorobenzene	ND	50.0	μg/L	10/13/99	
Ethylbenzene	581	50.0	μg/L	10/13/99	
Hexachlorobutadiene	ND	50.0	μg/L	10/13/99	
Isopropylbenzene	ND	50.0	$\mu g/L$	10/13/99	
M&P Xylene	3540	50.0	μg/L	10/13/99	
MTBE	314	50.0	μg/L	10/13/99	
N-Butylbenzene	93.6	50.0	μg/L	10/13/99	
N-Propylbenzene	ND	50.0	μ <b>g/L</b>	10/13/99	
Naphthalene	365	50.0	μg/L	10/13/99	
O Xylene	1860	50.0	μg/L	10/13/99	
Sec-Butylbenzene	ND	50.0	μg/L	10/13/99	
Styrene	ND	50.0	μg/L	10/13/99	
tert-Butylbenzene	ND	50.0	μg/L	10/13/99	
Tetrachloroethene	ND	50.0	μg/L	10/13/99	
Toluene	1780	50.0	μg/L	10/13/99	
Trichloroethene	ND	50.0	μg/L	10/13/99	
Homoroemene					

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

James Do

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 10/14/99

STEWART'S **PO BOX 435** SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-3

NEA ID:

AC06978

MATRIX:

WATER

DATE SAMPLED: 10/5/99

N/A

SAMPLED BY:

DATE RECEIVED: 10/6/99

**TIME:** 8:45

PROJECT: LOCATION: N/A

WEST ST., SHOP #198

TIME:

K. HEDGE

1 A D TT A D #.

11078

CUSTOMER PO: N/A		LAB ELAP	#: 110	78 DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
Methodology EPA Method 502.2					
1,2,3-Trichlorobenzene	ND	10.0	μg/L	10/14/99	
1,2,4-Trichlorobenzene	ND	10.0	μg/L	10/14/99	
1,2,4-Trimethylbenzene	577	200	μg/L	10/14/99	
1,2-Dichlorobenzene	ND	10.0	μg/L	10/14/99	
1,3,5-Trimethylbenzene	159	10.0	μg/L	10/14/99	
1,3-Dichlorobenzene	ND	10.0	μg/L	10/14/99	
1,4-Dichlorobenzene	ND	10.0	μg/L	10/14/99	
2-Chlorotoluene	ND	10.0	$\mu g/L$	10/14/99	
4-Chlorotoluene	ND	10.0	μg/L	10/14/99	
4-Isopropyltoluene	ND	10.0	μg/L	10/14/99	
Benzene	295	7.00	μg/L	10/14/99	
Bromobenzene	ND	10.0	μg/L	10/14/99	
Chlorobenzene	ND	10.0	μg/L	10/14/99	
Ethylbenzene	646	10.0	μg/L	10/14/99	
Hexachlorobutadiene	ND	10.0	μg/L	10/14/99	
Isopropylbenzene	28.7	10.0	μg/L	10/14/99	
M&P Xylene	2140	200	μg/L	10/14/99	
мтве	3700	200	μg/L	10/14/99	
N-Butylbenzene	33.7	10.0	μg/L	10/14/99	
N-Propylbenzene	82.6	10.0	μg/L	10/14/99	
Naphthalene	184	10.0	μg/L	10/14/99	
O Xylene	434	10.0	μg/L	10/14/99	
Sec-Butylbenzene	17.2	10.0	μg/L	10/14/99	
-	ND	10.0	μg/L	10/14/99	
Styrene Styrene	ND	10.0	μg/L	10/14/99	
tert-Butylbenzene	ND	10.0	μg/L	10/14/99	
Tetrachloroethene Toluene	108	10.0	μg/L	10/14/99	
Trichloroethene	ND	10.0	μg/L	10/14/99	
Hemoroemene:					

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

James Da

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS 10/14/99

STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-4

NEA ID:

AC06979

MATRIX:

WATER

DATE SAMPLED: 10/5/99

N/A

DATE RECEIVED: 10/6/99

TIME: 8:45

PROJECT:

N/A

SAMPLED BY:

K, HEDGE

LOCATION:

WEST ST., SHOP #198

CUSTOMER PO:

N/A

LAB ELAP #:

11078

DATE

TIME:

CUSTOMER PU: N/A		MAD DDIA		DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
Methodology; EPA Method 502.2					
1,2,3-Trichlorobenzene	ND	1.00	μg/L ~	10/14/99	
1,2,4-Trichlorobenzene	ND	1.00	μg/L	10/14/99	
1,2,4-Trimethylbenzene	ND	1.00	μg/L	10/14/99	
1,2-Dichlorobenzene	ND	1.00	μg/L	10/14/99	
1,3,5-Trimethylbenzene	ND	1.00	μg/L	10/14/99	
3-Dichlorobenzene	ND	1.00	μg/L	10/14/99	
1,4-Dichlorobenzene	ND	1.00	μg/L	10/14/99	
2-Chlorotolueno	ND	1.00	μg/L	10/14/99	
4-Chlorotoluene	ND	1.00	μg/L	10/14/99	
4-lsopropyltoluene	ND	1.00	μg/L	10/14/99	
Benzene	8.11	0.700	μg/L	10/14/99	
Bromobenzene	ND	1.00	μg/L	10/14/99	
Chlorobenzene	ND	1.00	μg/L	10/14/99	
Ethylbenzene	2.08	1.00	μg/L	10/14/99	
Hexachlorobutadiene	ND	1.00	μg/L	10/14/99	
Sopropylbenzene	ND	1.00	μg/L	10/14/99	
M&P Xylene	ND	1.00	μg/L	10/14/99	
MTBE	481	100	μg/L	10/14/99	
N-Butylbenzene	ND	1.00	μg/L	10/14/99	
N-Propylbenzene	1.63	1.00	μg/L	10/14/99	
Vaphthalene	ND	1.00	μg/L	10/14/99	
O Xylene	ND	1.00	μg/L	10/14/99	
Sec-Butylbenzene	ND	1.00	μg/L	10/14/99	
Styrene	ND	1.00	μg/L	10/14/99	
tert-Butylbenzene	ND	1.00	μg/L	10/14/99	
- I	ND	1.00	μg/L	10/14/99	
Tetrachloroethene	ND	1.00	μg/L	10/14/99	
Toluene	ND	1.00	μg/L	10/14/99	
Trichloroethene	1,2				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

James Do

# NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518)346-4592 Fax (518) 381-6055

CHAIN OF CUSTODY RECORD

LKFA99100028

CLIENT: Stewo	1-15		PROJECT#/PROJ	ect name: WSt	st. †	/ OP	3 2 3							REQUIRED TURN AROUND TIME:
CLIENT CONTACT:  DUE DATE:  PROV	yen.			R.Hond	.4	CON- TAIN- ERS	SOLL						ρĤ	STAMPARO REMARKS
SAMPLE ID	DATE	TIME	MATRIX	GRAB/COMP	NEA USE ONLY		1	2	3	_ <b>4</b>	5	6	17.7	J. J. J. J. J. J. J. J. J. J. J. J. J. J
mw-2	10/5		Ho	Grab	ACD 6977	12	J						5	mw-1 = N/A
mw-3					DCD 6978	2	1		*				5	under vehicle
mwy					A(0,697a	2							2	
									1 - 1 1					
		1. 7 17										1,000		
						3.50								
								4.9					1	
									A					
PARAMETER AND METHOD		S.A	MPLE BOTTLE:	ТУРЕ	SIZE PRES.	SAME	LED BY (	PRINT):	K		Kdo	)e_	NAMO	E OF COURIER (IF USED):
5022 ABP.		<u>1248 (1912)</u> 1378 (1913)			1 시하다 왕조의 1 (1887년) 12 2 - 기대 2 2년 10 (1787년)	сом	PANY:				A			
	, rajje je pokoj. Hojekoj kaj kiaj j	<u> </u>				DETE	NOUISHE	431	<u>آرشہ</u> معر	<u>584</u>	/ ./ /		PECE	EIVED BY: OTT LAZ MILA
			<u> 613 년   1.52년</u> 일반 216일 - 1				i Quisar	<b>Б</b> .	K	. 19	r led	ب	, and	MID MANY """"
			<u> </u>			DATE	10	Lloc	1		TIME:	ı C	DATE	WILL TIME
						REIJ	NQUISHE	10/7 V	!	<u> </u>	<u> </u>	1 >	RECE	U/0/M 0·75
	<u>nder der der der d</u> Spieler					DATE					TIME:			
NOTE: THE NUMBERED COLUMNS	S AROVE CROSS D	EKERENCE THE	NUMBERED COL	UMNS FROM TOP R	IGHT OF SHEET								DATE	e: <b>Time</b> ;
AMBIENT OR CHILLED		7,2°C		ESERVED: Y N	3.00	N RELI	NQUISHE	D BY:	<u>.</u>	1			RECI	EIVED BY:
			NOTE:		NOTE:									
RECEIVED BROKEN OR LEAKING NOTE:		YES NO	RCVD W/I HOL NOTE:	DING TIMES: Y N	COC DISCREPANCIES Y NOTE:	N DATI	<b>E:</b>				TIME:		DATI	E: TIMOE:

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 6/24/99

STEWART'S **PO BOX 435** SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-1

NEA ID:

AC03486

MATRIX:

WATER

DATE SAMPLED: 6/15/99

TIME:

13:30

DATE RECÉIVED: 6/16/99

TIME: 14:30

PROJECT:

N/A

SAMPLED BY:

T. ZABEL

LOCATION:

RUTLAND, SHOP #400

CUSTOMER PO: N/A		LAB ELAP #	<b>#:</b> 110	78 DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
Methodology: EPA Method 502.2					
1,2.3-Trichlorobenzene	ND	1.00	$\mu g/L$	6/22/99	
1,2,4-Trichlorobenzene	ND	1.00	$\mu g/L$	6/22/99	
1,2,4-Trimethylbenzene	ND	1.00	μg/L	6/22/99	
1,2-Dichlorobenzene	ND	1.00	μg/L	6/22/99	
1,3,5-Trimethylbenzene	ND	1.00	μg/Լ	6/22/99	
1,3-Dichlorobenzene	ND	1.00	րց/12	6/22/99	
1,4-Dichlorobenzene	ND	1.00	μg/L	6/22/99	
2-Chlorotoluene	ND	1.00	μg/L	6/22/99	
4-Chlorotoluene	ND	1.00	μg/L	6/22/99	
4-Isopropyltoluene	9.14	1.00	μg/L	6/22/99	
Benzene	ND	0.700	μg/L	6/22/99	
Bromobenzene	ND	1.00	μg/L	6/22/99	
Chlorobenzene	ND	1.00	μg/L	6/22/99	
Ethylbenzene	ND	1.00	μg/L	6/22/99	
Hexachlorobutagiene	ND	1.00	μg/L	6/22/99	
Isopropylbenzene	ND	00.1	μg/L	6/22/99	
M&P Xylene	ND	1.00	μց/Լ	6/22/99	
мтве	ND	1.00	μg/L	6/22/99	
N-Butylbenzene	ND	1.00	μg/L	6/22/99	
N-Propylbenzene	ND	1.00	μg/L	6/22/99	
Naphthalene	ИĎ	1.00	μg/L	6/22/99	
O Xylene	ND	1.00	μg/L	6/22/99	
Sec-Butylbenzene	1.14	1.00	μg/L	6/22/99	
Styrene	ND	1.00	μg/L	6/22/99	
tert-Butylbenzene	ND	1.00	μg/L	6/22/99	
Tetrachloroethene	ND	1.00	μg/L	6/22/99	
Toluene	МD	1.00	μg/L	6/22/99	
Trichloroethene	ND	1.00	μg/L	6/22/99	

Note: ND (Not Defected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 6/24/99

STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-2

NEA ID:

AC03487

MATRIX:

WATER

DATE SAMPLED: 6/15/99

TIME:

13:30

DATE RECEIVED: 6/16/99

TIME: 14:30

PROJECT:

N/A

SAMPLED BY:

T. ZABEL

LOCATION:

RUTLAND, SHOP #400

CUSTOMER PO:

N/A

LAB ELAP #:

11078

CUSTOMER PO: N/A		LAD ELA.	r#; 110	DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
Methodology: EPA Method 502.2					
1,2,3-Trichlorobenzene	ND	200	μ <b>g</b> /L	6/22/99	
1,2,4-Trichlorobenzene	ND	200	μg/L	6/22/99	
1,2,4-Trimethylbonzene	411	200	<b>μ</b> g/L	6/22/99	
1,2-Dichlorobenzene	ND	200	μg/ <b>L</b>	6/22/99	
1,3,5-Trimethylbenzene	ND	200	μg/L	6/22/99	
1,3-Dichlorobenzene	ND	200	μg/L	6/22/99	
1,4-Dichlorobengene	ND	200	μg/L	6/22/99	
2-Chlorotoluene	ND	200	μg/L	6/22/99	
4-Chlorotoluene	ND	200	μg/L	6/22/99	
4-Isopropyltoluene	ИN	200	μg/L	6/22/99	
Benzene	ND	140	μg/L	6/22/99	
Bromobenzene	ИD	200	μg/L	6/22/99	
Chlorobenzene	ND	200	μg/L	6/22/99	
Ethylbenzene	256	200	μg/L	6/22/99	
Hexachlorobutadiene	ND	200	μg/L	6/22/99	
Isopropylbenzene	ND	200	μg/L	6/22/99	
M&P Xylene	1740	200	μg/L	6/22/99	
MTBE	1540	200	μg/L	6/22/99	
N-Butylbenzene	ND	200	μg/L	6/22/99	
N-Propylbenzene	ND	200	μg/L	6/22/99	
Naphthalene	ND	200	μg/L	6/22/99	
O Xylene	771	200	<u>μ</u> g/L	6/22/99	
Sec-Butylbenzene	ND	200	րց/Լ	6/22/99	
Styrene	ИD	200	μg/L	6/22/99	
tert-Butylbenzene	ND	200	μg/L	6/22/99	
Tetrachloroethene	ND	200	μg/L	6/22/99	
Toluene	804	200	μg/L	6/22/99	
Trichloroethene	NĎ	200	μg/L	6/22/99	
Helitotoemette					

Note: ND (Not Delected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 6/24/99

STEWART'S **PO BOX 435** SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-3

NEA ID:

AC03488

MATRIX:

WATER

DATE SAMPLED: 6/15/99

13:30

DATE RECEIVED: 6/16/99

TIME: 14:30

PROJECT:

N/A

TIME:

SAMPLED BY: T. ZABEL		LOCATION:	RUT	LAND, SHOP #4	00
CUSTOMER PO: N/A		LAB ELAP #:	1107	78 DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
	·			<del></del>	
Methodology: EPA Method 502.2		***	4	6/22/99	
1,2,3-Trichlorobenzene	ND	20.0	μg/L		
1,2,4-Trichlorobenzene	NĎ	20.0	μg/L	6/22/99	
1,2,4-Trimethylbenzene	1170	20.0	μg/L	6/22/99	
1,2-Dichlorobenzene	ND	20.0	μg/L	6/22/99	
1,3,5-Trimethylbenzene	263	20.0	μg/L	6/22/99	
1,3-Dichlorobenzene	ND	20.0	μg/L	6/22/99	
1,4-Dichlorobenzene	ND	20.0	μg/L	6/22/99	
2-Chlorotoluene	ND	20.0	μg/L	6/22/99	
4-Chlorotoluene	ND	20.0	րջ/Լ	6/22/99	
4-Isopropyltoluene	ND	20.0	ทลิ\T	6/22/99	
Benzene	543	14.0	μg/L	6/22/99	
Bromobenzene	ND	20.0	μg/L	6/22/99	
Chlorobenzene	ND	20.0	μg/L	6/22/99	
Ethylbenzene	1030	20.0	μg/L	6/22/99	
Hexachlorobutadiene	ND	20.0	μg/L	6/22/99	
Isopropylbenzenę	41.9	20.0	μg/L	6/22/99	
M&P Xylenc	3790	200	μg/L	6/22/99	
MTBE	6750	200	μ <i>gi</i> L	6/22/99	
!	80.4	20.0	μg/L	6/22/99	
N-Burylbenzene	116	20.0	μg/L	6/22/99	
N-Propylbenzene	314	20.0	μg/L	6/22/99	
Naphthalene	1240	20.0	μg/L	6/22/99	
O Xylene	ND	20.0	μg/L	6/22/99	
Sec-Butylbenzene	ND	20.0	μg/L	6/22/99	
Styrene	ND ND	20.0	μ <b>g/L</b>	6/22/99	
tert-Butylbenzene	ND	20.0	րց/L	6/22/99	
Tetrachloroethene	600	20.0	κց/Ե μց/L	6/22/99	
Toluene		20.0	μg/L	6/22/99	
Trichloroethene	ND	20.0	rs		

Note: ND (Not Delected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

James Do

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner Laboratory Director

environmental lab services

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX: (518) 381-6055

CERTIFICATE OF ANALYSIS 6/24/99

STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:

MW-4

NEA ID:

AC03489

MATRIX:

WATER

DATE SAMPLED: 6/15/99

TIME:

13:30

DATE RECEIVED: 6/16/99

TIME: 14:30

PROJECT:

N/A

RUTLAND, SHOP #400

SAMPLED BY: T. ZABEL		LOCATION:	RUTL	RUTLAND, SHOP #400				
CUSTOMER PO: N/A		LAB ELAP #:	11078	DATE				
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS			
Methodology: EPA Method 502.2	-							
1,2,3-Trichlorobenzene	ND	00.1	µg/L	6/23/99				
1,2,4-Trichlorobenzene	ND	1.00	μg/L	6/23/99				
1,2,4-Trimethylbenzene	178	20.0	μg/L	6/23/99				
1.2-Dichlorobenzene	ND	1.00	μg/Ե	6/23/99				
1,3,5-Trimethylbenzene	39.2	1.00	μg/L	6/23/99				
1,3-Dichlorobenzenc	DИ	1.00	μg/L	6/23/99				
1,4-Dichlorobenzene	ND	1.00	μg/L	6/23/99				
2-Chlorotoluene	ND	1.00	μg/L	6/23/99				
4-Chlorotoluene	ND	1.00	μg/L	6/23/99				
4-Isopropyltoluene	2.08	1.00	μg/L	6/23/99				
Benzene	75.1	0.700	μg/L	6/23/99				
Bromobenzene	ND	1.00	μg/L	6/23/99				
Chlorobenzene	ND	1.00	μg/L	6/23/99				
Ethylbenzene	76.1	20.0	μg/L	6/23/99				
Hexachlorobutadiene	ND	1.00	μg/L	6/23/99				
Isopropylbenzene	8.83	1.00	μg/L	6/23/99				
M&P Xylene	248	20.0	μǥ/Լ	6/23/99				
MTBE	408	20.0	μg/L	6/23/99				
N-Butylbenzene	12.1	1.00	μg/L	6/23/99				
N-Propylbenzene	23.9	1.00	μg/L	6/23/99				
Naphthalene	36.2	1.00	μg/L	6/23/99				
O Xylene	79.2	1.00	μg/L	6/23/99				
Sec-Butylbenzene	4.58	1.00	μg/L	6/23/99				
•	ND	1.00	μg/L	6/23/99				
Styrene tert-Butylbenzene	ND	1.00	րց/Ե	6/23/99				
Tetrachloroethene	ND	1.00	μg/L	6/23/99				
	92.7	20.0	<u>μ</u> ց/ե	6/23/99				
Toluene	ND	1.00	րց/Լ	6/23/99				
Trichloroethene								

Note: ND (Not Defected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

James Da

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

# NORTHEAST ANALYTICAL, INC.

# CHAIN OF CUSTODY RECORD

301 Nott Street, Schenectady, N.Y. 12305 (518)346-4592 Fax (518)381-6055

LRF #99060074

(518)540-	4072		<i>13</i> 01-0033			./\.	, , ,	- 00	<del></del>	<u> </u>						<del></del>
CLIENT:	-0.75	20	PROJECT#/PROJE	CT NAME:				36		,					REQUIRED TU	RN AROUND TIME:
STEWARTS 5HO	21 5 5 5	00	WEST 5	/: /STATE) ADDRESS:			OF CON-	477				•			STANDAR	n ARD
CLIENT CONTACT: MARY			-	-			TAIN- ERS	W 7	.			:				<u> </u>
DUE DATE: PHONE			1	NT VT.				.50 ABB.	2	3	4	5	6	,	L	EMARKS
SAMPLE ID	DATÉ	TIME	MATRIX	GRAB/COMP	NEA USE							-				
MWI	6-15-97	130		GRAB	A(03		2	4			<b>-</b>		<b> </b>			
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6			<u></u>				RELINQUISHED BY:				PETAEN #4:					
7			· · · · ·		<u>L</u>	<u> </u>	DATE: TIME:				DATE	€:	TIME:			
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MRECEIVED BROKEN OR LEAKING NOTE:		yes 🔞	RCVD W/I HOLD NOTE:	ING TIMES: (y) N	COC DISCREP	ANCIES Y (1)	DATE	1				TIME:	=	DAT	E:	TIME: